

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

ASAHI-49

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/001102

International filing date (day/month/year)

27.01.2005

Priority date (day/month/year)

29.01.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

ASAHI KASEI PHARMA CORPORATION

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/001102

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/001102

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1 - 4</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	<u>1 - 4</u>	NO
Industrial applicability (IA)	Claims	<u>1 - 4</u>	YES
	Claims	_____	NO

2. Citations and explanations:

Document 1: JP, 61-227581, A (Asahi Chemical Industry Co., Ltd.), 9 October, 1986 (09.10.86), Claims, Industrial Field of Invention, page 2, lower left column, compound (1)

Document 2: JP, 61-152658, A (Asahi Chemical Industry Co., Ltd.), 11 July, 1986 (11.07.86), Claims, Industrial Field of Invention, page 5, upper left column, compound (60)

Document 3: US, 2003/162824, A1 (Elaine S. Krul et al), 28 April, 2003 (28.04.03), Claims

Claims 1-4

Claims 1-4 do not appear to involve an inventive step in view of documents 1-3 cited in the ISR.

Document 1 or 2 describes the effectiveness of an isoquinoline derivative containing a sulfonic group as an agent for the prevention of and treatments for vascular dilation, angina and the like.

Document 3 describes an agent and composition for the prevention of and treatments for cardiovascular diseases related to inflammations including cyclooxygenase 1. Therefore, claims 1-4 describe that inflammation accompanying a bypass operation is included among cardiovascular diseases, and that vasodilators such as fasudil can be used in the said method.

The subject matters of documents 1-3 involve a common technical field for the prevention of and treatments for cardiovascular diseases. Therefore, from the description of document 3, while the same drug may be applied to inflammation accompanying a bypass operation, it can be seen that fasudil can be used for the prevention of and treatments for cardiovascular diseases, albeit it has to be used in conjunction with other drugs.

Consequently, as described in document 3, a person skilled in the art could have easily conceived deriving the subject matters of claims 1-4 by using an isoquinoline derivative containing a sulfonic group described in document 1 or 2 for the prevention of and treatments for inflammatory cardiovascular diseases.

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<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		Date of mailing (day/month/year)
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International application No. PCT/JP2005/001102	International filing date (day/month/year) 27.01.2005	Priority date (day/month/year) 29.01.2004
International Patent Classification (IPC) or both national classification and IPC		
Applicant ASAHI KASEI PHARMA CORPORATION		

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Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

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Box No. 1

Basis of this opinion

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	Claims		NO
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	Claims		NO

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